## **Quizz 2 - 00P**

Full name

Q1 - Describe this code line-by-line.

```
first_name = ["Pierre", "Paul", "Jacques"].sample
last_name = "Paillard"
puts "Great! #{first_name} #{last_name} is born"
```

```
1.
2.
3.
```

Q2 - What's initialize? When is it called and what's its purpose?

Q3 - Consider this code. What's the difference between string and string?

```
1 string = String.new("Hello World")
```

Q4 - What does this method do?

```
1 def mystery_method(pets)
2  mammal_pets = []
3  for pet in pets
4  mammal_pets << pet if pet.mammal?
5  end
6  return mammal_pets
7 end</pre>
```

Q5 - Re-implement previous method <code>mystery\_method</code> using a nice <code>iterator</code> instead.

```
pets = [ MysteryObject.new("mouse"), MysteryObject.new("hummingbird") ]

pets = [ MysteryObject.new("mouse"), MysteryObject.new("hummingbird") ]

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```

Q6 - Write an Animal class that could be use in place of the MysteryObject at Q5. Implement a mammal? instance method that would work with the code at Q4.

```
1 class
2
3
4
5
6
```

Q7 - Write a class Dog which inherits from Animal. How mammal? should be overriden?

```
1 class
2
3
4
5
```

Q8 - Consider this code

```
1 class Fish
2  def self.overview()
3  return "Fishes can live in the sea"
4  end
5  def swim
6  # I'm swimming
7  end
8 end
```

Please, write some code **calling** both methods overview and swim.

```
1 # TODO: use overview and swim
2
3
```

Q9 - Let's define 2 classes, Liquid and Alcohol.

```
1 class Liquid
2
    def drink
      puts "You drank some liquid"
3
4
   end
5
    def evaporate
6
      puts "There is no more liquid"
7
     end
8 end
9
10 class Alcohol < Liquid
     def drink
11
     puts "You are now drunk"
12
13
     end
14 end
```

What is printed line 2 and 3 of the following ruby script?

```
beer = Alcohol.new
beer.drink
beer.evaporate
```

```
2.
3.
```

```
1 class Liquid
2
    def drink
       puts "You drank some liquid"
3
4
5
   def evaporate
       puts "There is no more liquid"
6
7
    end
8 end
9
10 class Alcohol < Liquid
11
    def drink
12
       super
13
      puts "You are now drunk"
14
     end
15 end
```

Same question with this new drink method. What is printed on line 2 and 3.

```
beer = Alcohol.new
beer.drink
beer.evaporate
```

```
2.
3.
```